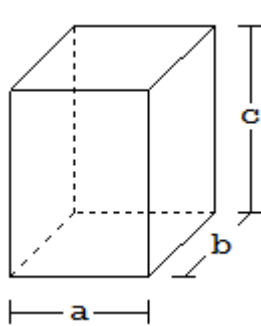


Klapptest – Quader-Volumen 3

Falte das Blatt entlang der Linie und berechne die fehlenden Größen.

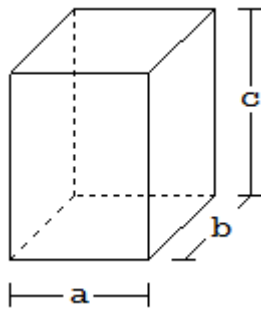
1. Aufgabe: Berechne.



$$\begin{aligned} a &= 5 \text{ cm} \\ b &= 11 \text{ cm} \\ c &= 8,6 \text{ cm} \\ V &= \underline{\hspace{2cm}} & O &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} V &= a \cdot b \cdot c \\ \mathbf{V} &= \mathbf{473 \text{ cm}^3} \\ O &= 2ab + 2bc + 2ac \\ \mathbf{O} &= \mathbf{385,2 \text{ cm}^2} \end{aligned}$$

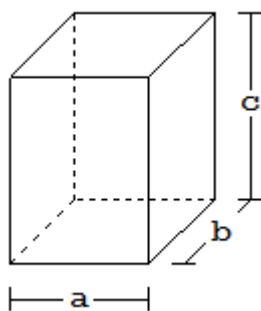
2. Aufgabe: Berechne.



$$\begin{aligned} a &= 9 \text{ m} \\ b &= 6,5 \text{ m} \\ c &= \underline{\hspace{2cm}} \\ V &= 427,05 \text{ m}^3 & O &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} c &= 427,05 : 9 : 6,5 \\ \mathbf{c} &= \mathbf{7,3 \text{ m}} \\ O &= 2ab + 2bc + 2ac \\ \mathbf{O} &= \mathbf{343,3 \text{ m}^2} \end{aligned}$$

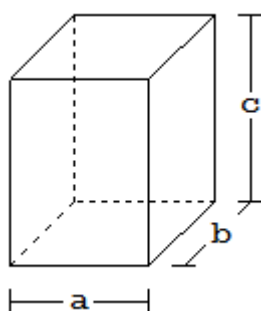
3. Aufgabe: Berechne.



$$\begin{aligned} a &= \underline{\hspace{2cm}} \\ b &= 5,5 \text{ m} \\ c &= 12,8 \text{ m} \\ V &= \underline{\hspace{2cm}} & O &= 364,06 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} a &= (O - 2bc) : (2b + 2c) \\ \mathbf{a} &= \mathbf{6,1 \text{ m}} \\ V &= a \cdot b \cdot c \\ \mathbf{V} &= \mathbf{429,44 \text{ m}^3} \end{aligned}$$

4. Aufgabe: Berechne.



$$\begin{aligned} a &= 8 \text{ dm} \\ b &= \underline{\hspace{2cm}} \\ c &= 8,7 \text{ dm} \\ V &= \underline{\hspace{2cm}} & O &= 386,36 \text{ dm}^2 \end{aligned}$$

$$\begin{aligned} b &= (O - 2ac) : (2a + 2c) \\ \mathbf{b} &= \mathbf{7,4 \text{ dm}} \\ V &= a \cdot b \cdot c \\ \mathbf{V} &= \mathbf{366,912 \text{ dm}^3} \end{aligned}$$

Ergebnis:

 / 12 P.